

PATENT

Attorney Docket No.: A-70203/RMS/RMK/JML

Attorney File No.: 469008-137

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CHOONG et al.

Serial No. 09/652,284

Filing Date: August 31, 2000

For: *Addressable Array for High Density
Electrical and Electrochemical
Detection of Biomolecules*

Examiner: Tran, My Chau T.

Group Art Unit: 1639

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450:

Dated: February 13, 2004

Signed: Brent Yonehara

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
AND
STATEMENT OF RELATEDNESS**

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. Copies of these references are enclosed.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

02/13/2004 8890000X 05582634

02/13/2004

120,0743

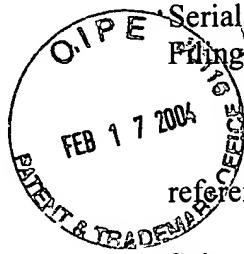
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Serial No. 09/652,284
Filing Date: August 31, 2000

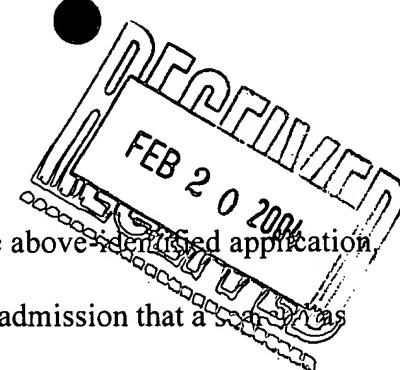
1. U.S.S.N. 09/306,749, filed May 7, 1999; U.S.S.N. 10/279,742, filed October 23, 2002;
2. U.S.S.N. 08/873,978, filed June 12, 1997;
3. U.S.S.N. 09/557,577, filed April 21, 2000; U.S.S.N. 10/236,481, filed September 5, 2002;
4. U.S.S.N. 08/873,597, filed June 12, 1997;
5. U.S.S.N. 10/241,376, filed September 11, 2002;
6. U.S.S.N. 09/096,593, filed June 12, 1998;
7. U.S.S.N. 09/440,371, filed November 12, 1999; U.S.S.N. 09/520,477, filed March 8, 2000; and U.S.S.N. 09/712,792, filed November 13, 2000;
8. U.S.S.N. 09/245,105, filed January 27, 1999;
9. U.S.S.N. 09/760,384, filed January 11, 2001; U.S.S.N. 09/993,342, filed November 5, 2001; and U.S.S.N. 10/412,660, filed April 11, 2003;
10. U.S.S.N. 10/259,532, filed September 27, 2002;
11. U.S.S.N. 10/149,319, filed February 28, 2003;
12. U.S.S.N. 09/506,178, filed February 17, 2000; U.S.S.N. 10/203,874, filed August 13, 2002; and U.S.S.N. 10/226,639, filed August 23, 2002;
13. U.S.S.N. 09/572,187, filed May 17, 2000; and
14. U.S.S.N. 09/590,964, filed June 9, 2000.

None of the foregoing references are believed to disclose the invention as claimed.

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the



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reference constitutes prior art against the invention claimed in the above identified application.

Submission of the present document shall not be construed as an admission that a claim has been made or that better art does not exist.

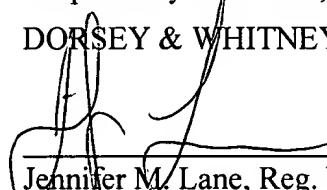
Pursuant to 37 C.F.R. §1.97(c), enclosed is a check in the amount of \$180.00 as set forth in 37 C.F.R. §1.17(p). While no additional fee is believed to be due, if this belief is in error the Commissioner is authorized to charge any additional fees, including extension fees or other relief which may be required, or credit any overpayment to Deposit Account No. 50-2319 (Our Order No. 469008-137 [A-70203/RMS/RMK/JML]).

Dated: 2/13/04
Customer Number: 32940
Dorsey & Whitney LLP
Intellectual Property Department
Four Embarcadero Center, Suite 3400
San Francisco, CA 94111-4187
Telephone: (415) 781-1989
Facsimile: (415) 398-3249

Attachments : Form PTO/SB/8A, Substitute for form 1449
143 cited references
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Respectfully submitted,
DORSEY & WHITNEY LLP

BY:


Jennifer M. Lane, Reg. No. 51,916
Patent Agent for
Robin M. Silva, Reg. No. 38,304
Filed Under 37 C.F.R. § 1.34(a)

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Substitute for form 1449A/PTO
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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Application Number	09/652,284
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First Named Inventor	CHOONG, Vi-En
Group Art Unit	1639
Examiner Name	TRAN, My Chau T.

Attorney Docket Number **A-70203/RMS/RMK/JML (469008-32)**

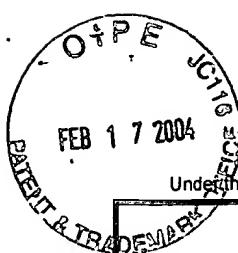
U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A1	3,934,209		01-20-1976	Valentine et al.	
A2	4,656,127		04-07-1987	Mundy	
A3	4,683,195		07-28-1987	Mullis et al.	
A4	4,713,347		12-15-1987	Mitchell et al.	
A5	4,839,017		06-13-1989	Taniguchi et al.	
A6	4,920,047		04-24-1990	Giaever et al.	
A7	4,988,617		01-29-1991	Landegren et al.	
A8	4,995,960		02-26-1991	Wiles et al.	
A9	5,001,048		03-19-1991	Taylor et al.	
A10	5,108,573		04-28-1992	Rubinstein et al.	
A11	5,126,034		06-30-1992	Carter et al.	
A12	5,192,507		03-09-1993	Taylor et al.	
A13	5,202,261		04-13-1993	Musho et al.	
A14	5,328,847		07-12-1994	Case et al.	
A15	5,486,335		01-23-1996	Wilding et al.	
A16	5,498,392		03-12-1996	Wilding et al.	
A17	5,505,321		04-09-1996	Caron et al.	
A18	5,519,635		05-21-1996	Miyake et al.	
A19	5,534,424		07-09-1996	Uhlen et al.	
A20	5,540,828		07-30-1996	Yacynych	
A21	5,547,839		08-20-1996	Dower et al.	
A22	5,554,339		09-10-1996	Cozzette et al.	
A23	5,585,069		12-17-1996	Zanzucchi et al.	
A24	5,587,128		12-24-1996	Wilding et al.	
A25	5,589,136		12-31-1996	Northup et al.	
A26	5,605,662		02-25-1997	Heller et al.	
A27	5,632,957		05-27-1997	Heller et al.	
A28	5,662,787		09-02-1997	Guttmann et al.	
A29	5,710,028		01-20-1998	Eyal et al.	
A30	5,728,532		03-17-1998	Ackley	
A31	5,776,672		07-07-1998	Hashimoto et al.	

Examiner Signature	Date Considered
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Group Art Unit	1639
Examiner Name	TRAN, My Chau T.

Sheet

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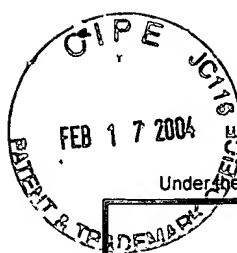
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A32	5,787,032		07-28-1998	Heller et al.	
A33	5,835,404		11-10-1998	Heller et al.	
A34	5,849,489		12-15-1998	Heller	
A35	5,866,345		02-02-1999	Wilding et al.	
A36	5,871,633		02-16-1999	Greenblatt et al.	
A37	5,925,520		07-20-1999	Tully et al.	
A38	5,929,208		07-27-1999	Heller et al.	
A39	5,952,172		09-14-1999	Meade et al.	
A40	5,965,452		10-12-1999	Kovacs	
A41	5,972,199		10-26-1999	Heller et al.	
A42	5,981,268		11-09-1999	Kovacs et al.	
A43	6,013,166		01-11-2000	Heller	
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A47	6,068,818		05-30-2000	Ackley et al.	
A48	6,071,394		06-06-2000	Cheng et al.	
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A50	6,087,100		07-11-2000	Meade et al.	
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A53	6,110,354		08-29-2000	Saban et al.	
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A58	6,168,948 B1		01-02-2001	Anderson et al.	
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A61	6,200,761 B1		03-13-2001	Meade et al.	
A62	6,207,373 B1		03-27-2001	Sosnowski et al.	

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Sheet

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	A63	6,225,059 B1	05-01-2001	Ackley et al.	
	A64	6,238,870 B1	05-29-2001	Meade et al.	
	A65	6,238,909 B1	05-29-2001	Choong et al.	
	A66	6,245,508 B1	06-12-2001	Heller et al.	
	A67	6,249,784 B1	06-19-2001	Macke et al.	
	A68	6,254,827 B1	07-03-2001	Ackley et al.	
	A69	6,258,593 B1	07-10-2001	Schembri et al.	
	A70	6,258,606 B1	07-10-2001	Kovacs	
	A71	6,268,149 B1	07-31-2001	Meade et al.	
	A72	6,268,150 B1	07-31-2001	Meade et al.	
	A73	6,277,576 B1	08-21-2001	Meade et al.	
	A74	6,284,117 B1	09-04-2001	Smolko et al.	
	A75	6,287,517 B1	09-11-2001	Ackley et al.	
	A76	6,300,141 B1	10-09-2001	Segal et al.	
	A77	6,303,082 B1	10-16-2001	John et al.	
	A78	6,306,348 B1	10-23-2001	Havens et al.	
	A79	6,309,601 B1	10-30-2001	Juncosa et al.	
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	A83	6,331,274 B1	12-18-2001	Ackley et al.	
	A84	6,375,899 B1	04-23-2002	Ackley et al.	
	A85	6,379,897 B1	04-30-2002	Weidenhammer et al.	
	A86	6,385,080 B1	05-07-2002	Heller et al.	
	A87	6,395,493 B1	05-28-2002	Sosnowski et al.	
	A88	2001/0034033 A1	10-25-2001	Meade et al.	
	A89	2002/0033345 A1	03-21-2002	Meade	
	A90	2003/0003473 A1	01-02-2003	Kayyem et al.	

Examiner Signature		Date Considered
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B1	EP 0 213 825 A2		03-11-1987	Molecular Devices Corporation		
B2	EP 0 226 470 A2		06-24-1987	Unilever PLC		
B3	EP 0 238 166		09-23-1987	Nippon Paint Co. Ltd.		
B4	EP 0 372 911 A2(A3)		06-13-1990	Chirana Zavody Zdravotnicke		
B5	EP 0 543 550 A1		05-26-1993	Houston Advanced Research Center		
B6	EP 0 637 996 B1		02-15-1995	Trustees of University of Pennsylvania		
B7	EP 0 637 998 B1		02-15-1998	Trustees of University of Pennsylvania		
B8	WO 93/16383 A1		08-19-1993	Scientific Generics Ltd.		
B9	WO 95/29199 A1		11-02-1995	Bio Merieux		
B10	WO 96/06946 A1		03-07-1996	Igen Inc.		
B11	WO 96/15450 A1		05-23-1996	David Sarnoff Research Center		
B12	WO 96/15576 A1		05-23-1996	David Sarnoff Research Center		
B13	WO 96/39252 A1		12-12-1996	David Sarnoff Research Center		
B14	WO 96/39260 A1		12-12-1996	David Sarnoff Research Center		
B15	WO 97/16561 A1		05-09-1997	David Sarnoff Research Center		
B16	WO 97/27324 A1		07-31-1997	David Sarnoff Research Center		
B17	WO 97/37755 A1		10-16-1997	Sarnoff Corporation		
B18	WO 97/43629 A1		11-20-1997	Sarnoff Corporation		
B19	WO 98/05424 A1		02-12-1998	Caliper Technologies Corporation		
B20	WO 98/13683 A1		04-02-1998	Sarnoff Corporation		
B21	WO 98/49557 A1		11-05-1998	B-E Safe Inc.		
B22	WO 98/54294 A1		12-03-1998	Trustees of the Leland Stanford Jr. University		
B23	WO 99/07879 A1		02-19-1999	University of Southern California		
B24	WO 99/15893 A1		04-01-1999	Aventis Research and Technologies		
B25	WO 99/18242 A1		04-15-1999	Motorola Inc.		
B26	WO 99/26729 A1		06-03-1999	Université de Montréal		
B27	WO 99/33559 A1		07-08-1999	Cepheid		
B28	WO 00/16089 A2(A3)		03-23-2000	Clinical Micro Sensors		

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	B29	WO 00/38836 A1	07-06-2000	Clinical Micro Sensors		
	B30	WO 00/77523 A1	12-21-2000	Motorola Inc.		
	B31	WO 01/42508 A2	06-14-2001	Motorola Inc.		
	B32	WO 01/43870 A2	06-21-2001	Motorola Inc.		
	B33	WO 01/50131 A1	07-12-2001	Motorola Inc.		
	B34	WO 01/57533 A2	08-09-2001	Motorola Inc.		

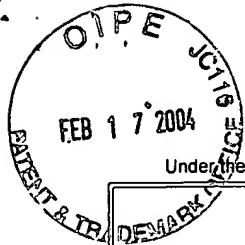
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	C1	BARD, A., et al. (eds.), "Controlled-Current Techniques," <i>Electrochemical Methods</i> , pp. 316-353, John Wiley & Sons, Inc.: New York, NY (2001).	
	C2	BEATTIE, K., et al., "Genosensor Technology", <i>Clin. Chem.</i> 39(4):719-722 (1993).	
	C3	BIDAN, G., et al., "Conducting Polymers as a link between biomolecules and microelectronics," <i>Synthetic Metals</i> 102(1-3):1363-1365 (Jun. 1999) (Abstract).	
	C4	DESIMONI, E., et al., "A polypyrrole-coated, piezoelectric sensor for Cr ^{V1} . Preliminary results," <i>Anal. Commun.</i> 36(2):45-46 (Feb. 1999).	
	C5	DICESARE, J., et al., "A High-Sensitivity Electrochemiluminescence-Based Detection System for Automated PCR Product Quantification," <i>Bio Techniques</i> 15(1):152-157 (1993).	
	C6	GARNER, B., et al., "Polypyrrole-heparin composites as stimulus-responsive substrates for endothelial cell growth," <i>J. Biol. Materials Res.</i> 44(2):121-129 (Feb. 1999).	
	C7	GUSCHIN, D., et al., "Oligonucleotide Microchips as Genosensors for Determinative and Environmental Studies in Microbiology," <i>Applied Environ. Microbiol.</i> 63(6):2397-2402 (Jun. 1997).	
	C8	IHARA, T., et al., "Ferrocene-oligonucleotide conjugates for electrochemical probing of DNA," <i>Nucleic Acids Res.</i> 24(21):4273-4280 (Nov. 1996).	
	C9	KWOK, C., et al., "Surface Modification with Polymers with Self-Assembled Molecular Structures: Multitechnique Surface Characterization," <i>Biomacromolecules</i> 1(1):139-148 (Spr. 2000).	
	C10	LIVACHE, T., et al., "Biosensing effects in functionalized electroconducting conjugated polymer layers: addressable DNA matrix for the detection of gene mutations," <i>Synthetic Metals</i> 71(3):2143-2146 (1995).	
	C11	LIVACHE, T., et al., "Polypyrrole DNA Chip on a Silicon Device: Example of Hepatitis C Virus Genotyping," <i>Anal. Biochem.</i> 255(2):188-194 (Sep. 1998).	
	C12	MILLAN, K., et al., "Sequence-Selective Biosensor for DNA Based on Electroactive Hybridization Indicators," <i>Anal. Chem.</i> 65(17):2317-2323 (Sep. 1993).	

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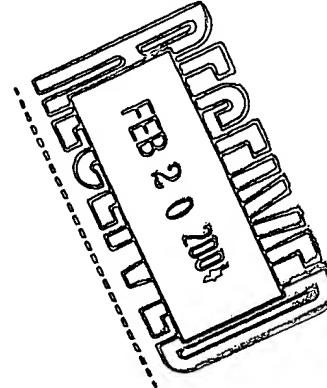
Complete if Known

Application Number	09/652,284
Filing Date	August 31, 2000
First Named Inventor	CHOONG, Vi-En
Group Art Unit	1639
Examiner Name	TRAN, My Chau T.

Attorney Docket Number **A-70203/RMS/RMK/JML (469008-137)**

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	C13	PÉREZ, F., et al., "Immunomagnetic Separation with Mediated Flow Injection Analysis Amperometric Detection of <i>Escherichia coli</i> 0157," <i>Anal. Chem.</i> 70(11):2380-2386 (Jun. 1998).	
	C14	PREZYNA, L., et al., "Interaction of Cationic Polypeptides with Electroactive Polypyrrole/Poly(Styrene Sulfonate) and Poly(N-Methylpyrrole)/Poly(Styrenesulfonate) Films," <i>Synthetic Metals</i> , 41(3):979-981 (1991).	
	C15	SARGENT, A., et al., "The Electrochemistry of Antibody-Modified Conducting Polymer Electrodes," <i>J. Electroanalytical Chem.</i> 470(2):144-156 (Jul. 1999).	
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	C17	TURYAN, I., et al., "Patterning and Characterization of Surfaces with Organic and Biological Molecules by the Scanning Electrochemical Microscope," <i>Anal. Chem.</i> 72(15):3431-3435 (Aug. 2000).	
	C18	ULMAN, A., et al., "Self-assembled monolayers of rigid thiols," <i>Rev. Molecular Biotechnol.</i> 74(3):175-188 (2000).	
	C19	YANG, M., et al., "Genosensor technology and the detection of interfacial nucleic acid chemistry," <i>Anal. Chim. Acta</i> . 346(3):259-275 (Jul. 1997).	



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